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Attorney Docket No.: 22493-27U (16666ROUS01U)

## IN THE CLAIMS

Please amend Claims 1, 2, 10, 12, 13, 14, 18, 19, 20, 24, and 29 as indicated.

1. (Currently Amended) A method comprising:

modeling network element commands, events and <u>run-time system</u> data <u>from a plurality of a same type of sources in into a data model using</u> a first modeling language, the data model comprising first data;

translating the first data represented in the first modeling language to second data represented in a second modeling language;

storing the <u>second</u> data in the second modeling language in a global data model repository; and

automatically generating code to support an external management interface based on the stored second data in the global repository, the external management interface communicating with the stored second data.

- 2. (Currently Amended) The method of claim 1 further comprising automatically generating system documentation based on the stored <u>second</u> data.
- 3. (Previously Presented) The method of claim 2 wherein the generated system documentation corresponds to code generated to support an external management interface.
- 4. (Previously Presented) The method of claim 1 wherein the first modeling language is structured management information (SMI).
- 5. (Previously Presented) The method of claim 1 wherein the second modeling language is extensible markup language (XML).
- 6. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement a command line interface (CLI).

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7. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement an Extensible Markup Language interface.

- 8. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement a Simple Network Management Protocol interface.
- 9. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement a configuration database.
- 10. (Currently Amended) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement Simple Network Management Protocol subagents.
- 11. (Original) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to assist in implementation of an Application Program Interface.
- 12. (Currently Amended) The method of claim 1 wherein modeling includes modeling the run-time system data from a plurality of sources using at least one of the first modeling language and the second modeling language.

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- 13. (Currently Amended) A system comprising:
- a memory comprising a global repository;
- a processor electrically coupled to the memory;
- a first interface to a plurality of sources <u>network elements</u>, the first interface being <u>in</u> communication with the global repository; and
- a second interface to an external interface, the second interface being <u>in</u> communication with the global repository, wherein the <u>global repository</u> <u>processor</u> is configured to:
- model network element commands, events and <u>run-time system</u> data <del>from a</del> plurality of a same type of sources in into a data model using a first modeling language, the data model comprising first data;

translate <u>the first</u> data represented in the first modeling language to <u>second</u> data represented in a second modeling language;

store the <u>second</u> data in the second modeling language in the global data model repository; and

automatically generate code to support an external management interface code development based on the stored <u>second</u> data in the global repository, the external management interface communicating with the stored second data.

- 14. (Currently Amended) The system of claim 13 further configured to automatically generate system documentation based on the stored <u>second</u> data.
- 15. (Previously Presented) The system of claim 14 wherein the generated system documentation corresponds to a code generated implementation.
- 16. (Previously Presented) The method of claim 13 wherein the first modeling language is structured management information (SMI).
- 17. (Previously Presented) The method of claim 13 wherein the second modeling language is extensible markup language (XML).

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18. (Currently Amended) The method of claim 13 wherein the global repository is further configured to model operational system data from a plurality of sources using at least one of the first modeling language and the second modeling language.

19. (Currently Amended) A computer program product, tangibly embodied in an information carrier a computer storage medium, for executing instructions on a processor, the computer program product being operable to cause a machine to:

model network element commands, events and <u>run-time system</u> data <u>from a plurality of a same type of sources in into a data model using</u> a first modeling language, the data model <u>comprising first data</u>;

translate <u>the first</u> data represented in the first modeling language to <u>second</u> data represented in a second modeling language;

store the <u>second</u> data in the second modeling language in a <u>memory comprising a</u> global data model repository; and

automatically generate code to support an external management interface code development based on the stored <u>second</u> data in the global repository, the external management interface communicating with the stored second data.

- 20. (Currently Amended) The computer program product of claim 19 further configured to automatically generate system documentation based on the stored second data.
- 21. (Previously Presented) The computer program product of claim 19 wherein the generated system documentation corresponds to the generated code.
- 22. (Previously Presented) The computer program product of claim 19 wherein the first modeling language is structured management information (SMI).
- 23. (Previously Presented) The computer program product of claim 19 wherein the second modeling language is extensible markup language (XML).

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24. (Currently Amended) The computer program product of claim 19 wherein the global repository is further configured to model operational system data from a plurality of sources using at least one of the first modeling language and the second modeling language.

- 25. (Previously Presented) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement a command line interface (CLI).
- 26. (Previously Presented) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement a configuration database.
- 27. (Original) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement SNMP subagents.
- 28. (Previously Presented) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement an API.
- 29. (Currently Amended) The computer program product of claim 24 wherein instructions to cause a machine to model operational system data from a plurality of sources include instructions to cause a machine to model operational system data from a plurality of sources using at least one of the first modeling language and the second modeling language.